Fujitsu recommends Windows 8 Pro.

Data Sheet
Fujitsu CELSIUS M730 Workstation

Your "Thoroughbred" Workstation

If you're looking for reliable performance when using demanding applications, the Fujitsu CELSIUS M730 single-processor workstation meets your needs. It can be individually configured, helping you to enhance your productivity. It features best-in-class noise emissions of only 20 dB for a quiet and efficient working environment. Comprehensive ISV certifications ensure your applications run smoothly. Finally, the convenient cold plug access at front simplifies subsequent expansion.

Performance
Higher productivity
- Future Intel® Xeon® processors, high performing graphics subsystems, quad-channel memory technology and high-speed hard disk drives

Ergonomics
Noise-reduced system engineered in Germany
- Optimized thermal management, low-noise chassis and silent fans

Reliability
System stability for the complete lifecycle
- High product standards thanks to top-quality components and comprehensive testing in certified in-house laboratories for 24/7 operation

Certification of workstation applications
Stability, compatibility and performance for the main workstation applications
- Comprehensive support for ISV applications and ease of integration into existing IT networks

Expandability
Excellent expandability for future demands
- Increased memory capacities of up to 128 GB

Fujitsu recommends Windows 8 Pro.

Components

Processor	Intel® Xeon® processor E5-2697v2 (12 cores, 2.70 GHz, 30 MB)
	Intel® Xeon® processor E5-2695v2 (12 cores, 2.40 GHz, 30 MB)
	Intel® Xeon® processor E5-2690v2 (10 Cores, 3.00 GHz, 25 MB)
	Intel® Xeon® processor E5-2680v2 (10 Cores, 2.80 GHz, 25 MB)
	Intel® Xeon® processor E5-2670v2 (10 Cores, 2.50 GHz, 25 MB)
	Intel® Xeon® processor E5-2667v2 (8 Cores, 3.30 GHz, 25 MB)
	Intel® Xeon® processor E5-2660v2 (10 Cores, 2.20 GHz, 25 MB)
	Intel® Xeon® processor E5-2650v2 (8 Cores, 2.60 GHz, 20 MB)
	Intel® Xeon® processor E5-2650Lv2 (10 Cores, 1.70 GHz, 25 MB)
	Intel® Xeon® processor E5-2643v2 (6 Cores, 3.50 GHz, 25 MB)
	Intel® Xeon® processor E5-2640v2 (8 Cores, 2.00 GHz, 20 MB)
	Intel® Xeon® processor E5-2637v2 (4 Cores, 3.50 GHz, 15 MB)
	Intel® Xeon® processor E5-2630v2 (6 Cores, 2.60 GHz, 15 MB)
	Intel® Xeon® processor E5-2630Lv2 (6 Cores, 2.40 GHz, 15 MB)
	Intel® Xeon® processor E5-2620v2 (6 Cores, 2.10 GHz, 15 MB)
	Intel® Xeon® processor E5-2609v2 (4 Cores, 2.50 GHz, 10 MB)
	Intel® Xeon® processor E5-2603v2 (4 Cores, 1.80 GHz, 10 MB)
	Intel® Xeon® processor E5-1660v2 (6 Cores, 3.70 GHz, 15 MB)
	Intel® Xeon® processor E5-1650v2 (6 Cores, 3.50 GHz, 12 MB)
	Intel® Xeon® processor E5-1620v2 (4 Cores, 3.70 GHz, 10 MB)
	Intel® Xeon® processor E5-1607v2 (4 Cores, 3.00 GHz, 10 MB)
	Intel® Xeon® processor E5-1603 (4 Cores / 8 Threads, 2.80 GHz, 10 MB)
	Intel® Xeon® processor E5 family featuring Intel® vPro™ Technology
Operating systems	
Operating system	Windows 8.1 Pro 64-bit Windows 8 Pro 64-bit Windows 7 Professional 64-bit
Operating system compatible	Windows® Server 2012 Windows 7 Professional 32-bit Windows® XP Professional x64 Edition Linux
Operating system notes	Certified for Red Hat© Enterprise Linux Certified for SUSE Enterprise Desktop Certified for SUSE Enterprise Server For some configurations third party drivers are currently not available or configuration restrictions may apply. SCU ports are not supportet for Windows® XP 32bit (restriciton by Intel®). Therefore an additional storage controller (D2607 or D2616) is necessary. Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com
Memory modules	4 GB (1 module(s) 4 GB) DDR3, ECC, 1,866 MHz, PC3-14900
	4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1,600 MHz, PC3-12800
	8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1,866 MHz, PC3-14900
	16 GB (1 module(s) 16 GB) DDR3, registered, ECC, 1,866 MHz, PC3-14900

Fujitsu recommends Windows 8 Pro.

Graphics	Ultra-high-end 3D: NVIDIA® Quadro® K6000, 12 GB, 2,880 cores, PCIe x16, 1x Dual Link DVI-I, 1x Dual Link DVI-D, 2x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® 6000, 6 GB, 448 cores, PCIe x16, 1x DVI-I, 2x DisplayPort
	Ultra-high-end 3D: NVIDIA® Quadro® K5000, 4 GB, 1,536 cores, PCIe x16, 1x Dual Link DVI-I, DVI-D, 2x DisplayPort
	High-end 3D: AMD FirePro™ W8000, 4 GB, 1,792 stream processors, PCIe x16, 4 x DisplayPort
	High-end 3D: AMD FirePro™ W7000, 4 GB, 1,280 stream processors, PCIe x16, 4 x DisplayPort
	High-end 3D: NVIDIA® Quadro® K4000, 3 GB, 768 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: NVIDIA® Quadro® K2000D, 2 GB, 384 cores, PCIe x16, 2x Dual Link DVI-I
	Midrange 3D: NVIDIA® Quadro® K2000, 2 GB, 384 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Midrange 3D: AMD FirePro™ W5000, 2 GB, 768 cores, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: AMD FirePro™ V4900, 1 GB, 480 stream processors, PCIe x16, 1x Dual Link DVI-I, 2x DisplayPort
	Entry 3D: NVIDIA® Quadro® K600, 1 GB, 192 cores, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: AMD FirePro™ V3900, 1 GB, 480 stream processors, PCIe x16, 1x Dual Link DVI-I, 1x DisplayPort
	Entry 3D: NVIDIA® Quadro® 410, 512 MB, 192 cores, PCIe x16, 1x DVI-I, 1x DisplayPort
	Professional 2D: NVIDIA® NVS 510, 2 GB, 16 cores, PCIe Gen2 x16, 4x miniDP
	Professional 2D: NVIDIA® NVS 310, 512 MB, 16 cores, PCIe Gen2 x16, 2x DisplayPort
	Professional 2D: NVIDIA® NVS 300, 512 MB, 16 cores, PCIe Gen2 x16, 2x LFH59 (DP/DVI-I)
	GPU computing card: NVIDIA® Tesla™ K20, 5 GB, 2,496 cores, PCIe x16
	Remote Graphics: CELSIUS RemoteAccess Dual Card, PCIe x1, 2x miniDP, PCoIP
	Remote Graphics: CELSIUS RemoteAccess Quad Card, PCIe x1, 4x miniDP, PCoIP
Personal Supercomputing	Coprocessor: Intel® Xeon Phi™ Coprocessor 3120A, PCIe x16
Hard disk drives (internal)	SSD SATA III Premium, 512 GB, 2.5-inch
	SSD SATA III Premium, 256 GB, 2.5-inch
	SSD SATA III Premium, 128 GB, 2.5-inch
	SSD SATA III, 512 GB, 2.5-inch
	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA III, 10,000 rpm, 1,000 GB, 2.5-inch, business critical
	HDD SATA III, 10,000 rpm, 500 GB, 2.5-inch, business critical
	HDD SATA III, 7,200 rpm, 4,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 3,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 2,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 1,000 GB, 3.5-inch
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch, business critical
	HDD SATA III, 7,200 rpm, 500 GB, 3.5-inch
	HDD SAS, 15,000 rpm, 300 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 900 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 600 GB, 2.5-inch
	HDD SAS, 10,000 rpm, 300 GB, 2.5-inch
Hard disk notes	*Disk imaging software of the customer must be 4k sector size / advanced format ready One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 24/7 ready (business critical HDDs required)
Drives (optional)	BD Triple Writer SATA slim (tray)
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 24in1 USB 2.0 3.5"
SCSI / SAS Controller	RAID 5/6 Ctrl. 6 Gbit/s 8 ports int. 512 MB Cache
	RAID 0/1 Ctrl. 6 Gbit/s 8 ports ext.

Interface add on cards/components (optional)	
	WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only, not for Indonesia)
	WLAN 802.11 abgn (2x2), (dedicated regions only, not for Indonesia)
	USB 3.0 PCIe x1
	Serial Interface FH
	Gigabit Ethernet PCIe x1, DS
	eSATA Interface
	Dual serial card PCIe x1
	Dual 10 Gigabit Ethernet PCIe x8

Base unit

Base unit	CELSIUS M730	CELSIUS M730 power
Mainboard		
Mainboard type	D3128	
Formfactor	ATX	
Chipset	Intel® C602	
Processor socket	Socket R	
Processor quantity maximum	1	
Memory slots	8 DIMM (DDR3) ECC/non-ECC	
Supported capacity RAM (max.)	128 GB	
Memory notes	In configurations with 4 GB and more the visible memory may be reduced to approximately 3.5 GB or less (for 32-bit operating systems) and configurations with 8 GB the visible memory may be reduced to approximately 7.5 GB or less (depending on system configuration). Large memory may lead to long boot times. When using a 32-bit operating system the maximum of memory might be 900 MB.	
LAN	Built-in 10/100/1,000 MBit/s Intel® 82579 LM	
BIOS version	AMI Aptio 4.6	
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)	
Audio type	On board	
Audio codec	Conexant CX20642	
Audio features	High Definition Audio	
I/O controller on board		
Serial ATA total	6	
thereof SATA III	2	
SATA RAID support	0, 1, 10, 5	
SAS Controller type	optional upgrade to 4 ports, Intel C604	
SAS RAID support	0, 1, 10	
Interfaces		
Audio: in (rear)	1	
Audio: out (rear)	1	
Audio: in	1	
Audio: out	1	
Internal speakers	1	
USB 2.0 total	11	
USB 3.0 total	2	
USB front	4 (2x USB 3.0)	

Fujitsu recommends Windows 8 Pro.

Interfaces		
USB rear	6	
USB internal	3, thereof 1 type A	
Mouse / Keyboard (PS/2)	1 / 1	
Ethernet (RJ-45)	1	
Interface Module notes	Anytime USB charge functionality	
Input device / components		
	Optical USB tilt wheel mouse	
Input devices (optional)	Optical USB/PS2 tilt wheel mouse Space Explorer USB Keyboard	
Drive bays		
Drive bays total	12	
2.5-inch internal bays	8	
3.5-inch internal bays	4	
3.5-inch external bays	2	
5.25-inch external bays	2	
Slots		
PCI-Express 3.0 x4 (mech. x8)	2 x (312 mm / 12.29 inch) Full height	
PCI-Express 3.0 x16	2 x (312 mm / 12.29 inch) Full height	
PCI-Express 2.0 x4 (mech. x16)	1 x (312 mm / 12.29 inch) Full height	
PCI (32-bit / 33 MHz)	2 x (312 mm / 12.29 inch) Full height	
Electrical values		
Power consumption note	190 W depending on configuration	250 W depending on configuration
Rated voltage range	100 V - 240 V	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Operating voltage range	100 V - 240 V	100 V - 240 V
Operating line frequency range	50 Hz - 60 Hz	50 Hz - 60 Hz
Max. output of single power supply	500 W up to 90% efficiency	800 W up to 90% efficiency
Power factor correction/active power	active	
Power supply output	1 graphics power rail (6pin connector / 17A@12V)	2 graphics power rails (6pin connector / 17A@12V)
Noise for standard configuration (HDD, ODD, FDD)		
Related Processors for noise	Intel® Xeon® E5-1620v2 w/ Nvidia® NVS 300	Intel® Xeon® E5-1620v2 w/ Nvidia® NVS 300
Standard noise emission	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: CPU 50% load	3.5 B / 20 dB(A) Bystander position	3.5 B / 20 dB(A) Bystander position
Standard noise operation mode: CPU 90% load	3.5 B / 20 dB(A) Bystander position	3.5 B / 20 dB(A) Bystander position
Standard noise operation mode: HDD load	3.6 B / 20 dB(A) Bystander position	3.6 B / 20 dB(A) Bystander position
Standard noise operation mode: Idle mode	3.5 B / 20 dB(A) Bystander position	3.5 B / 20 dB(A) Bystander position
Standard noise operation mode: ODD load	4.5 B / 28 dB(A) Bystander position	4.5 B / 28 dB(A) Bystander position
Standard noise operation mode: Office applications 2.0	3.5 B / 20 dB(A) Bystander position	3.5 B / 20 dB(A) Bystander position
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A-weighted sound power level Lwad (in B); 1B = 10dB	A-weighted sound power level Lwad (in B); 1B = 10dB

Fujitsu recommends Windows 8 Pro.

Noise for standard configuration (HDD, ODD, FDD)		
Blue angel noise operation mode: HDD load	3.8 B = 38 dB (A)	3.8 B = 38 dB (A)
Blue angel noise operation mode: Idle mode	3.8 B = 38 dB (A)	3.8 B = 38 dB (A)
Blue angel noise operation mode: ODD load	4.6 B = 46 dB (A)	4.6 B = 46 dB (A)
Dimensions / Weight / Environmental		
Dimensions (W x D x H)	186 x 481 x 430 mm	
Operating position	Vertical / horizontal	
Weight	18 kg	
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 - 35 °C (50 - 95 °F)	
Operating relative humidity	5 - 85 % (relative humidity)	
Compliance		
Product	CELSIUS M730	CELSIUS M730 Power
Model	ETNA_S-D3128	
Germany	GS depending on configuration	
Europe	CE	
USA/Canada	cCSAus FCC Class B	
Global	RoHS (EU & China) Medical EMC standard IEC60601-1-2 in combination with medical kit Microsoft Operating Systems (HCT / HCL entry / WHQL) WEEE (Waste electrical and electronic equipment) ENERGY STAR® 5.0 (depending on configuration) EPEAT® Gold (dedicated regions)	
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates	
Additional Software		
Additional software (preinstalled)	Workplace Protect (secure authentication solution) McAfee Multi Access Security (anti-virus and internet security software; 60 days trial version) Microsoft Office (buy license to activate the pre-installed Microsoft Office)	
Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 8 and Windows® 7	
Security		
Physical Security	Kensington Lock support Eye for padlock Intrusion switch Integrated cabinet lock (optional)	
System and BIOS Security	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Dynamic USB security for full hardware USB protection Control of all USB interfaces Trusted platform module (TPM 1.2) EraseDisk	
User Security	User and supervisor BIOS password Access protection via external SmartCard reader (optional) Access protection via internal SmartCard reader (optional)	
Manageability		
Manageability technology	DeskUpdate Driver management iAMT 8.0 (depending on CPU)	
Manageability software	DeskView Client DeskView Instant BIOS Management DeskView Integration for Symantec Management Platform	

Fujitsu recommends Windows 8 Pro.

Manageability		
DeskView components	Inventory Management BIOS Management Driver Management Security Management Alarm Management	
Supported standards	WMI BootP (made4you) PXE WoL (Wake on LAN)	
Manageability link	http://www.fujitsu.com/fts/manageability	
Miscellaneous		
	Rack mountable (5U)	Rack mountable (5U)
Spare part availability	5 years	5 years
Packaging information		
Packaging dimension (mm)	397 x 597 x 555 mm	397 x 597 x 555 mm
Packaging dimension (inch)	15.63 x 23.5 x 21.85 inch	15.63 x 23.5 x 21.85 inch
Max. quantity / pallet	16	16
Packaging notes	printed user documentation is bleached in chlorine free process	printed user documentation is bleached in chlorine free process
Warranty		
Standard Warranty	3 years (depending on country)	
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 3 years material warranty)	
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty	
Maintenance and Support Services - the perfect extension		
Recommended Service	9x5, Response Time: Next Business Day	
Spare Parts availability	5 years after end of product life	
Service Weblink	http://www.fujitsu.com/fts/services/support	

Recommended Accessories

MicroSaver Slim		The Fujitsu Kensington MicroSaver slim features the patented T-Bar locking mechanism with carbon tempered steel core cable and an external braided steel sheath. The MicroSaver slim is available with Kensington Master Access. This security solution allows you to manage and maintain a limitless number of locks with a master key.	Order Code: S26361-F1650-L200
Display P23T-6 FPR 3D		If you're a pixel, color and performance-hungry professional using demanding 2D and 3D applications, Fujitsu Display P23T-6 FPR 3D is the perfect choice for you. The combination of the stunning IPS graphic panel with latest 3D FPR technology, unique energy efficiency features and sophisticated ergonomics make this display really unrivalled.	Order Code: S26361-K1370-V170
Display P27T-7 LED		Enjoy perfect picture quality with 3.7 Mio pixels, outstanding ergonomics and usability as well as comfortable energy saving solutions of this 68.5 cm (27-inch) widescreen Fujitsu P Line display.	Order Code: S26361-K1442-V140

Fujitsu recommends Windows 8 Pro.

Mouse M440 ECO		Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users.	Order Code: S26381-K450-L200
SpaceMouse™ Pro		Using the SpaceMouse™ Pro 3D mouse to navigate 3D models or environments is as simple as holding them in your hand. A slight movement of the controller cap delivers easy and precise control. SpaceMouse™ Pro is a companion to the traditional mouse and is operated with the free hand. Your traditional mouse hand is free to select, create and edit.	Order Code: S26381-K459-L100
Keyboard KBPC PX ECO		Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras.	S26381-K341-L1** (**: country specific variation)

Fujitsu recommends Windows 8 Pro.

More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu CELSIUS M730, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu CELSIUS M730, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/CELSIUS

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

Green Policy Innovation

Copyrights

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.
For further information see www.fujitsu.com/terms
Copyright © Fujitsu Technology Solutions

Disclaimer

Technical data are subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

Contact
FUJITSU Technology Solutions
Website: www.fujitsu.com/fts
2014-04-08 CE-EN

All rights reserved, including intellectual property rights. Changes to technical data reserved. Delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.
For further information see www.fujitsu.com/terms
Copyright © Fujitsu Technology Solutions